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Appl. No. 09/865,952*Amendments to the Claims*

1. (currently amended) An ultrasonic pen comprising:
a pressure sensitive tip to generate a pressure signal;
an ultrasonic transmitter to transmit pulses for position determination;
a pressure activated switch coupled to the pressure sensitive tip,
wherein the pressure activated switch is operable to turn on the ultrasonic
transmitter when pressure is applied to the pressure sensitive tip; and
a second transmitter to transmit the pressure signal.
2. (original) The ultrasonic pen of claim 1 wherein the pressure sensitive tip includes an ink dispenser.
3. (original) The ultrasonic pen of claim 1 wherein the ultrasonic transmitter and the second transmitter emit energy at different frequencies.
4. (original) The ultrasonic pen of claim 3 wherein the ultrasonic transmitter emits ultrasonic energy between substantially forty kilohertz and eighty kilohertz.
5. (cancelled)
6. (original) The ultrasonic pen of claim 5 wherein the ultrasonic transmitter comprises a piezoelectric material.
7. (currently amended) The ultrasonic pen of claim 6 wherein the piezoelectric material is arranged in a cylinder.
8. (original) The ultrasonic pen of claim 1 wherein the second transmitter comprises an infrared transmitter.
9. (original) The ultrasonic pen of claim 8 wherein the second transmitter is configured to provide a time reference signal.

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10. (original) The ultrasonic pen of claim 1 wherein the second transmitter comprises a radio frequency transmitter.

11. (original) The ultrasonic pen of claim 1 wherein the ultrasonic transmitter and the second transmitter are burst transmitters.

12. (currently amended) A digital signature collection system comprising:
a first ultrasonic receiver;
a second ultrasonic receiver mountable on a surface a distance from the first ultrasonic receiver;
a higher frequency receiver; and
an ultrasonic pen having a pressure sensitive tip to generate a pressure signal, the pressure sensitive tip coupled to a pressure activated switch, wherein the pressure activated switch is operable to turn on an ultrasonic transmitter when pressure is applied to the pressure sensitive tip, the ultrasonic pen also including an pressure sensitive ink cartridge to dispense ink and to generate a pressure signal, the ultrasonic pen being configured to transmit the pressure signal to the higher frequency receiver, and to transmit ultrasonic energy to the first and second ultrasonic receivers.

13. (original) The digital signature collection system of claim 12 further comprising a computer coupled to the first and second ultrasonic receivers and the higher frequency receiver.

14. (original) The digital signature collection system of claim 13 wherein the computer is configured to receive time-of-arrival data from the first and second ultrasonic receivers, and configured to receive pressure signal information from the higher frequency receiver.

15. (original) The digital signature collection system of claim 14 wherein the computer is further configured to determine a location of the ultrasonic pen versus time, a velocity of the ultrasonic pen versus time, and an acceleration of the ultrasonic pen versus time.

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16. (original) The digital signature collection system of claim 12 wherein the higher frequency receiver comprises an infrared receiver.

17. (original) The digital signature collection system of claim 12 wherein the higher frequency receiver comprises a radio frequency receiver.

18. (cancelled)

19. (cancelled)

20. (cancelled)

21. (cancelled)

22. (cancelled)

23. (cancelled)

24. (cancelled)

25. (cancelled)

26. (cancelled)

27. (cancelled)

28. (cancelled)

29. (cancelled)